



Monday, May 20, 2019

Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500
SDG ID: GCD06920
Sample ID#s: CD06920

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 20, 2019

SDG I.D.: GCD06920

Project ID: GULF CHELSEA TERMINAL 60597375-0500

Client Id	Lab Id	Matrix
OUTFALL 003	CD06920	SURFACE WATER



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 20, 2019

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SURFACE WATER
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

05/02/19
05/03/19

Time

13:45
16:00

Laboratory Data

SDG ID: GCD06920
Phoenix ID: CD06920

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	05/06/19	MSF	E1664A
pH	7.95	1.00	pH Units	1	05/04/19 00:07	RR/EG	SM4500-H B-11
Total Suspended Solids	35	5.0	mg/L	1	05/07/19	EG	SM2540D-11
Semi-Volatile Extraction	Completed				05/03/19	S/D	SW3520C

Aromatic Volatiles w/Napthalene

Benzene	ND	1.0	ug/L	1	05/03/19	MH	E624.1
Napthalene	ND	1.0	ug/L	1	05/03/19	MH	E624.1

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	101		%	1	05/03/19	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	05/03/19	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	05/03/19	MH	70 - 130 %
% Toluene-d8	101		%	1	05/03/19	MH	70 - 130 %

Semivolatiles by SIM, PAH

Benzo(a)pyrene	ND	0.10	ug/L	1	05/07/19	PS	E625.1
Napthalene	ND	0.51	ug/L	1	05/07/19	PS	E625.1

QA/QC Surrogates

% 2-Fluorobiphenyl	67		%	1	05/07/19	PS	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/07/19	PS	30 - 130 %
% Terphenyl-d14	38		%	1	05/07/19	PS	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

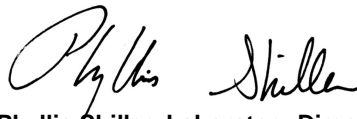
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 20, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 20, 2019

QA/QC Data

SDG I.D.: GCD06920

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 477653 (mg/L), QC Sample No: CD05994 (CD06920)													
Oil and Grease by EPA 1664A	BRL	1.4	<1.4	<1.4	NC	96.0			90.0			85 - 115	20
Comment:													
Additional: MS acceptance range 75-125%.													
QA/QC Batch 477817 (mg/L), QC Sample No: CD06830 (CD06920)													
Total Suspended Solids	BRL	5.0	230	230	0	93.0						85 - 115	
QA/QC Batch 477640 (pH), QC Sample No: CD06892 (CD06920)													
pH			6.31	6.39	1.30	98.5						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 20, 2019

QA/QC Data

SDG I.D.: GCD06920


Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 477706 (ug/L), QC Sample No: CD07238 (CD06920)										
<u>Volatiles - Surface Water</u>										
Benzene	ND	0.70	98	95	3.1	92	95	3.2	65 - 135	20
Naphthalene	ND	1.0	84	84	0.0	95	105	10.0	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	100	1.0	101	99	2.0	70 - 130	30
% Bromofluorobenzene	91	%	108	106	1.9	110	105	4.7	70 - 130	30
% Dibromofluoromethane	96	%	100	104	3.9	105	100	4.9	70 - 130	30
% Toluene-d8	100	%	99	99	0.0	100	100	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
May 20, 2019

Monday, May 20, 2019

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCD06920 - AECOME-GULF

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

May 20, 2019

SDG I.D.: GCD06920

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

